

AMENDMENTS TO THE DRAWINGS

Amendments to the drawings are provided, annotated and replacement sheets which are filed herewith.

REMARKS

Claims 1-10 are pending in the application, of which claim 1 has been amended. No new claims have been added.

The Examiner has objected to the replacement drawings. Accordingly, Applicants have submitted herewith annotated and replacement drawing sheets to replace the original drawings submitted.

The Examiner has not entered the substitute specification filed May 20, 2005 because it does not conform to 37 CFR 1.125(b) and (c). The Examiner has urged that the following new issues (new matter) are presented which are not supported in the specification as originally filed, such as:

1. The “alternation” of controlling the LED rows in pages 11-12; and
2. The “turn-on” control illuminated region, in pages 12-14.

Applicants respectfully disagree. Page 10, lines 9-13 provide support for both items #1 and #2. However, the substitute specification filed on May 20, 2005 is improper because it fails to show deleted material in a marked-up copy.

Accordingly, a marked up copy properly showing the deleted material is attached hereto.

Claim 5 stands rejected under 35 U.S.C. §112, first paragraph, as based on a disclosure which is not enabling.

Applicant respectfully disagrees. Page 6, lines 10-15 of the specification as originally filed supports the claimed feature of counting the number of observers and measuring their positions relative to the display. Page 10, lines 1-8 disclose the situation where only one (1) observer and his position are detected, while page 10, lines 9-18 disclose the situation where two (2) observers and their respective positions are detected.

Claim 8 stands rejected under 35 U.S.C. §112, first paragraph, as failing to comply with the written description requirement.

Applicant respectfully disagrees. As noted above, page 10, lines 9-18 provide support for both the alternation of the horizontal rows of LEDs and the turn-on control of the horizontal rows of LEDs, as recited in claim 8.

Claims 1-4 and 6-9 stand rejected under 35 U.S.C. §102(b) as anticipated by U.S. Patent 5,936,774 to Street (hereafter, “Street”).

Applicant respectfully traverses this rejection.

Street discloses an apparatus and method for the display of autostereoscopic images, in which two or more perspective views are generated by a single transmissive display screen. A structured light source behind the screen directs light through different sets of display elements to correspondingly different viewing zones. In certain embodiments, the structured source comprises a patterned mask 21 which prevents light from passing through a particular set of elements and reaching the wrong zone. The pattern of the mask 21 may be programmed. Observer coordinate data permits the correct viewing zone to be co-located with each of the observer’s corresponding eyes. A tapered lenticular structure can provide the means for adapting to changes in the observer’s distance from the display.

The Examiner has urged, among other things, that “row LCD 42” and “row LCD 44” arranged one above the other in Street correspond to the horizontal rows of LEDs claimed in the instant application.

Applicant respectfully disagrees. Column 9, lines 27-40 disclose:

Each element of a lenticular screen 40, which has its elements arranged horizontally, images light originating from any particular row of mask 35 to a corresponding row of elements of an LCD 41. The element’s neighbor images light from this particular row to a row of LCD 41 which is spaced by two row pitches from the corresponding row. In other words, rows 42 of mask 35, which present the same arrangement of blocking and transmitting regions to lenticular screen 37, all provide light to alternate rows of the LCD and in such a manner that these are seen by the observer’s left eye 43. Conversely, rows

44, 40, provide light for the other interleaved lines of the LCD, and direct this to the observer's right eye 45.

Thus, first it should be noted that Street discloses a light source 1, but does not disclose that it consists of LEDs, as in the present invention. As is well known in the art, the LCD 41 is transmissive and thereby does not produce light, while the LEDs of the present invention are emissive and function as a light source.

Second, it should be noted that items 42 and 44 in Street represent horizontal rows in a mask 35, and not LCDs. FIG. 4 clearly shows a single LCD 41 through which light passes after passing through rows 42, 44 in mask 35. The light also passes through screen 37 and lenticular screen 40 before passing through LCD 41.

Thus, the LED array having LEDs arranged in two horizontal rows one above the other, as claimed in the instant application, is not disclosed in Street.

Thus, the 35 U.S.C. §102(b) rejection should be withdrawn.

Claim 10 stands rejected under 35 U.S.C. §103(a) as unpatentable over Street.

Applicant respectfully traverses this rejection.

As noted above, Street fails to disclose the elements recited in claim 1, from which claim 10 depends.

Thus, the 35 U.S.C. §103(a) rejection should be withdrawn.

Applicants have submitted marked and unmarked copies of a Substitute Specification herewith, along with a Statement that the Specification Contains No New Matter.

CONCLUSION

In view of the aforementioned amendments and accompanying remarks, claims 1-10, as amended, are in condition for allowance, which action, at an early date, is requested.

If, for any reason, it is felt that this application is not now in condition for allowance, the Examiner is requested to contact the applicants' undersigned attorney at the telephone number indicated below to arrange for an interview to expedite the disposition of this case.

In the event that this paper is not timely filed, the applicants respectfully petition for an appropriate extension of time. Please charge any fees for such an extension of time and any other fees which may be due with respect to this paper, to Deposit Account No. 04-1105.

Respectfully submitted,

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